



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

June 2016

PAGE 1 OF 9

Data Qualified?

Yes / No

STORET Station Name: Lower Dianne Lake Middle

Date: 10/10/2016

(mm/dd/yyyy)

STORET Station ID: G1WA0040

WBID: 546A

Latitude: 30.59355

(Decimal Degrees)

County: Leon

RQ - 2016-10-10-34

ORG ID: 21FLWQA

Longitude: -84.23534

(Decimal Degrees)

Receiving Body of Water: UPPER DIANNE LAKE

Field ID: G1WA0040_10102016

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
Robert Wiwi									☒ Sample Container	☐ Van Dorn	☐ Pole	
Colby Marshall									☐ Carboy	☐ Syringe		
									☐ Dipper	☐ Other		
									Equipment ID			
									Collection Method			
									☐ Wading	☒ Via Boat		
									☐ From Shore	☒ Canoe/Kayak		
									☐ Other (note below)	☐ Electric Motor		
									☐ Gasoline Motor			
Water Level: Dry / Low / ☒ Normal / High / Flooded									Matrix: Fresh / ☒ Marine / DI			
Meter ID# <u>Biolab #</u>				Photos: Yes / ☒ No				Tide Falling: Yes / No / ☒ NA				
Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C°)		
EST	1120	0.3	3.8	8.2	101	7.7	0.03	1.0	73	25.9		
CEN	1125	3.3		7.8	94	7.6	0.03		73	25.8		
Biological Samples Collected: ☒ None HA SCI LVS RPS LVI Other												
Parameter Suite		Parameter Methods					Preservation	Acid Lot#	Expiration	pH Check		
Preserved Nutrients		☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP					☒ Ice ☐ H2SO4	SA-620902 7/27/16	7/27/16	☒ <2		
Metals		☐ W-ICPMS ☐ W-ICP					☐ Ice ☐ HNO3			☐ <2		
Filtered Nutrients		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter					☒ Ice					
Chlorophyll		☒ CHLSUITE-W					☒ Ice					
Physical/Aggregate (Fresh)		☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-SO4-IC / W-TDS					☒ Ice					
Physical/Aggregate (Marine)		☐ Alkalinity / W-F / W-TSS / TURBIDITY					☐ Ice					
Macroinvertebrates		☐ MI-FW-QLDC					☐ Formalin					
Microbiology		☐ E Coli ☐ F Coli ☐ Entero ☐ QPCR					☐ Ice	Place Preservative Sticker(s) Here (If Available)				
Periphyton		☐ ALGAE-ID					☐ Ice					
Pesticides		☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH					☐ Ice ☐ Other					

Notes:



G1WA0040 10 Oct 2016

Lower Dianne Lake Middle

Signature:

Date:

Field Parameters Entered into LIMS:

(Initials/Date)

Field Parameters QC in LIMS:

(Initials/Date)

Date Migrated to STORET:

(Initials/Date)

Field Sheets Scanned/Saved:

(Initials/Date)

QA/QC Sample Information

Duplicate

Time Zone: EST CEN		Sample Depth (m): _____		Field ID: _____	
Time: _____		Total Depth (m): _____			
Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☐ W-NH3 / ☐ W-NO2NO3 / ☐ W-TKN / ☐ W-TOC / ☐ W-S-A-TP	☐ Ice ☐ H ₂ SO ₄			☐ < 2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃			☐ < 2
Filtered Nutrients	☐ W-PO4-F ☐ Field Filtered 0.45 µm Filter	☐ Ice	Place Preservative Sticker(s) Here (If Available)		
Chlorophyll	☐ CHLSUITE-W	☐ Ice			
Physical/Aggregate (Fresh)	☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	☐ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococcus ☐ QPCR	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other _____			

Blank

Time Zone: EST CEN		Time: 0910	Field ID: GLWA00363-1002016	Location: Lake Montezuma Business	
☒ Field Blank ☐ Equipment Blank ☐ Field Cleaned Equipment Blank		Equipment ID _____			
Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / ☐ W-NO2NO3 / ☐ W-TKN / ☐ W-TOC / ☐ W-S-A-TP	☒ Ice ☒ H ₂ SO ₄	SA-6209170	7/27/17	☒ < 2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃			☐ < 2
Filtered Nutrients	☒ W-PO4-F ☐ Field Filtered 0.45 µm Filter	☒ Ice	Place Preservative Sticker(s) Here (If Available)		
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococcus ☐ QPCR	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other _____			

Notes:

Place Label Here
(If Available)

Signature: _____

Date: 10/10/16

Field Parameters Entered into LIMS: _____

(Initials/Date)

Field Parameters QC in LIMS: _____

(Initials/Date)

Date Migrated to STORET: _____

(Initials/Date)

Field Sheets Scanned/Saved: _____

(Initials/Date)

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there is qualified data on this page.

Meter **Biology 2**

RQ- **2016-10-10-34**

Project **SMP**

- Notes:** (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site _____

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 09/23/2016

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Robert Wini	10/10/16	0748	21.0	20.87	29.37	8.9	100	39.0	101	P L
ICV	Robert Wini	10/10/16	0750	20.9	8.9	8.9	100	39.0	—	P	L
CCV	Robert Wini	10/10/16	1520	21.0	8.9	8.7	97	38.0	—	P	L
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

DO Acceptance criteria from Table ± 0.3 mg/L.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Robert Wini	10/10/16	0755	160330D	4/17	1000	1000	P	L
ICV	Robert Wini	10/10/16	0756	2S10F25	10/17	100	100	P	L
CCV	Robert Wini	10/10/16	1523	2S10F25	10/17	100	100	P	L
CCV									

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Robert Wini	10/10/16	0758	160330B	10/17	7.0	7.0	-25.5	P	L
Calibr.	Robert Wini	10/10/16	0759	160330A	4/17	4.0	4.0	153.1	P	L
Calibr.	Robert Wini	10/10/16	0800	160330C	10/17	10.0	10.0	-192.6	P	L
ICV	Robert Wini	10/10/16	0805	160330C	10/17	10.0	10.0	-192.6	P	L
CCV	Robert Wini	10/10/16	1525	160330A	4/17	4.0	4.0	152.1	P	L
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 ± 50 ;

mV pH 4 Range $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ; Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification _____

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air				0.000			

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WQAP

Requester: Benjamin Ralys

Field Report Prepared By:

Project ID: SMP

Collected By:

Robert Wiwi, Colby Marshall

Sampling Agency:

FDEP

Location		Lower Dianne Lake Middle		Collection (comp begin or grab)		Time		Composite end		Bottle Group(s)	
Field ID	G1WA0040_10102016	Matrix (type, e.g., Salt, Fresh, etc)	Fresh	Date	10/10/16	Diss. Oxygen	8.2	Total Res. Chlorine			A
STORET #	G1WA0040	Temp (C)	25.9	pH	7.7	Sample Depth	0.3	Sp. Conductance (umho/cm)	73		
Latitude	30.59355	Longitude	-84.23534	Salinity (ppt)	0.03	Comments					
Location		Petty Gulf Lake Middle		Collection (comp begin or grab)		Time		Composite end		Bottle Group(s)	
Field ID	G1WA0022_10102016	Matrix (type, e.g., Salt, Fresh, etc)	Fresh	Date	10/10/16	Diss. Oxygen	8.4	Total Res. Chlorine			A
STORET #	G1WA0022	Temp (C)	25.7	pH	7.7	Sample Depth	0.3	Sp. Conductance (umho/cm)	57		
Latitude	30.58915	Longitude	-84.22637	Salinity (ppt)	0.03	Comments					
Location		Pine Hill Lake Middle		Collection (comp begin or grab)		Time		Composite end		Bottle Group(s)	
Field ID	G1WA0054_10102016	Matrix (type, e.g., Salt, Fresh, etc)	Fresh	Date	10/10/16	Diss. Oxygen	8.4	Total Res. Chlorine			A
STORET #	G1WA0054	Temp (C)	25.5	pH	7.6	Sample Depth	0.3	Sp. Conductance (umho/cm)	46		
Latitude	30.58492	Longitude	-84.2195	Salinity (ppt)	0.02	Comments					
Location		Lake Tom John Middle		Collection (comp begin or grab)		Time		Composite end		Bottle Group(s)	
Field ID	G1WA0043_10102016	Matrix (type, e.g., Salt, Fresh, etc)	Fresh	Date	10/10/16	Diss. Oxygen	8.3	Total Res. Chlorine			A
STORET #	G1WA0043	Temp (C)	25.8	pH	7.3	Sample Depth	0.3	Sp. Conductance (umho/cm)	65		
Latitude	30.54484	Longitude	-84.21478	Salinity (ppt)	0.03	Comments					

Relinquished By:	Date/Time	10/10/16	Received By:	MRB	Date/Time	10/10/16/2:58pm
Shipping Method		Number of Coolers Shipped:				

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WQAP

Project ID: SMP

Requester: Benjamin Ralys

Collected By:

Robert Wiwi, Colby Marshall

Field Report Prepared By:

Robert Wiwi

Sampling Agency:

FDEP

Location Lake Monkey Business Middle		Collection (comp begin or grab) Date 10/10/16 Time 0930		Composite end Date		Bottle Group(s) (See pg 2)	
Field ID G1WA0036-10102016		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 8.0		Total Res. Chlorine (mg/L)	
STORET # G1WA0036		Temp (C) 25.5		pH 7.1		Sample Depth 0.3	
Latitude 30.60779		Longitude -84.23076		Salinity (ppt) 0.02		Sp. Conductance (umho/cm) 56	
Location Lake Monkey Business Middle DUP		Collection (comp begin or grab) Date 10/10/16 Time 0930		Composite end Date		Bottle Group(s) (See pg 2)	
Field ID G1WA0036D-10102016		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 8.0		Total Res. Chlorine (mg/L)	
STORET # G1WA0036		Temp (C) 25.5		pH 7.1		Sample Depth 0.3	
Latitude 30.60779		Longitude -84.23076		Salinity (ppt) 0.02		Sp. Conductance (umho/cm) 56	
Location Lake Monkey Business		Collection (comp begin or grab) Date 10/10/16 Time 0910		Composite end Date		Bottle Group(s) (See pg 2)	
Field ID G1WA0036B-10102016		Matrix (type, e.g., Salt, Fresh, etc) D.I. Water		Diss. Oxygen —		Total Res. Chlorine (mg/L)	
STORET # —		Temp (C) —		pH —		Sample Depth —	
Latitude —		Longitude —		Salinity (ppt) —		Sp. Conductance (umho/cm) —	
Location Upper Dianne Lake Middle		Collection (comp begin or grab) Date 10/10/16 Time 1015		Composite end Date		Bottle Group(s) (See pg 2)	
Field ID G1WA0041-10102016		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 7.9		Total Res. Chlorine (mg/L)	
STORET # G1WA0041		Temp (C) 25.1		pH 7.2		Sample Depth 0.3	
Latitude 30.59986		Longitude -84.23778		Salinity (ppt) 0.02		Sp. Conductance (umho/cm) 49	

Relinquished By:

K. Di-

Date/Time

10/10/16

Shipping Method

Number of Coolers Shipped:

Received By:

MB

Date/Time

10/10/16/2:58pm

Cooler Packing Worksheet for Request: RQ-2016-10-10-34

Killearn Lakes Chain of Lakes

Ship Cooler On: 9/26/2016

Customer/Project: WQAP/SMP

Requester: Benjamin Ralys

Priority: 3

850-245-8443
2600 Blair Stone Rd
MS #3560
Tallahassee, FL 32399-2400
Attn: Benjamin Ralys

Comments:

Bottle Group A: freshwater kit no metals

Bottle Group B: Field Blank

Bottle Group C: Duplicate

3 - liters of DI water

1 - case of Sulfuric Acid

Requested Analyses:

Bottle Group: A

of Sites: 9

Container ID: P-1L

Qty: 9 Preservation: ICE

Lot # 00064523

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-TDS

W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO₃/L

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices

Container ID: BP-1L

Qty: 9 Preservation: ICE

Lot # 1170333

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry

Container ID: P-500ML

Qty: 9

Preservation: ICE And H2SO4

Lot # 00065372

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3
W-NO2NO3
W-S-A-TP
W-TKN
W-TOC

Description

Ammonia in aqueous matrices as mg N/L
Nitrite/Nitrate in aqueous matrices as mg N/L
Total Phosphorus in aqueous matrices as mg P/L
Total Kjeldahl Nitrogen in aqueous matrices
Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 9

Preservation: ICE-FLTR

Lot # 00065090

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: B

of Sites: 1

Container ID: P-1L

Qty: 1

Preservation: ICE

Lot # 00064523

Description: Plastic Bottle 1L

Analysis

ALKALINITY
TURBIDITY
W-CL-IC
W-COLOR
W-F
W-TDS
W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO3/L
Turbidity in aqueous matrices
Chloride in aqueous matrices
True Color measured at 450 nm
Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
Total Dissolved Solids in aqueous matrices
Total Suspended Solids in aqueous matrices

Container ID: BP-1L

Qty: 1

Preservation: ICE

Lot # 1170333

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry

Container ID: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 000 65372

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3
W-NO2NO3
W-S-A-TP
W-TKN
W-TOC

Description

Ammonia in aqueous matrices as mg N/L
Nitrite/Nitrate in aqueous matrices as mg N/L
Total Phosphorus in aqueous matrices as mg P/L
Total Kjeldahl Nitrogen in aqueous matrices
Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 1 Preservation: ICE-FLTR

Lot # 000 65393

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: C

of Sites: 1

Container ID: P-1L

Qty: 1 Preservation: ICE

Lot # 000 62523

Description: Plastic Bottle 1L

Analysis

ALKALINITY
TURBIDITY
W-CL-IC
W-COLOR
W-F
W-TDS
W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO3/L
Turbidity in aqueous matrices
Chloride in aqueous matrices
True Color measured at 450 nm
Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
Total Dissolved Solids in aqueous matrices
Total Suspended Solids in aqueous matrices

Container ID: BP-1L

Qty: 1 Preservation: ICE

Lot # 1170333

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry

Container ID: P-500ML

Qty: 1

Preservation: ICE And H2SO4

Lot # 00065372

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 1

Preservation: ICE-FLTR

Lot # 00065393

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Cooler Packed By: APB

Date: 10-4-16

DEP Cooler ID #(s): 4

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle (1 per cooler)
- ☒ FedEx Bills, if applicable (1 per cooler)
- ☒ Plastic Bags
- ☐ Zip Ties

If Preservation Included:

ID <u>H2SO4 11-727-17</u>	Lot # <u>SA6209120</u>
ID _____	Lot # _____
ID _____	Lot # _____
ID _____	Lot # _____
ID _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2016-10-10-34